KEYBOARD TEMPLATE

SynCalc™

800 and XL Series

MATHEMATICAL FUNCTIONS

@ABS(X) Absolute Value of x in radians
@ACOS(X) Arc cosine of x in radians
@ASIN(X) Arc sine of x in radians
@ATAN(X) Arc tangent of x in radians
@COS(X) Cosine of x where x is in radians
@EXP(X) e raised to the x power
@INT(X) Integer portion of x
@LN(X) Natural log of x
@LOG(X) Common log of x
@PI 3.141592
@SIN(X) Sine of x where x is in radians
@SQT(X) Square root of x
@TAN(X) Tangent of x where x is in radians

STATISTICAL FUNCTIONS

@AVG(range) Average of values in range(x:x)
@CNT(range) Count of numeric entries in range(x:x)
@MAX(range) Maximum value in range (x:x)
@MEAN(range) Sample mean in range(x:x)
@MIN(range) Minimum value in range(x:x)
@RNG(range) Range as Max-Min in range(x:x)
@SD(range) Sample standard deviation of values in range(x:x)
@SUM(range) Sum of values in range(x:x)
@VAR(range) Sample variance of values in range(x:x)

LOGICAL FUNCTIONS

@IF CONDITION THEN x ELSE y
Value is x if condition is true, value is y if condition is false. Conditions <, <=, >=, >, =, <>, or, and.

SPECIAL FUNCTIONS

@LOOKUP(x,range,offset) Returns the value from table given x, range(x:x), and offset.

FINANCIAL FUNCTIONS

@FV(payment,interest,term) Future-value of an annuity FV=payment(+interest)term -1/interest

@NPV(range,interest) Net present value of payments in range(x:x) at interest rate

@PMT(principal,interest,term) Payment given principal, interest rate/period and #of periods. PMT=principal(-interest/1-(1+interest)^-term

COMMAND REFERENCE

LOAD/SAVE sub-menu

LOAD WRKSHEET or /LLW cell D filename.ext Loads worksheet at specified cell. ex.: /LLW A1 D:FILENAME.ext

LOAD DATA or /LLD order operation cell filespec Loads the selected data DIF file at cell in given order and performing the operation specified. Orders R=row or C=column. Operations O=overlay, +=add, -=subtract, *=multiply and /=divide. ex.: /LLDRO A1 D:FILESPEC.ext

VC->SC VisiCalc to SynCalc transfer from menu only

SAVE WRKSHEET or /LSW filespec. ex.: /LSW D:FILESPEC.

SAVE DATA or /LSD order range filespec. Orders R=row and C=column. ex.: /LSDR A1:D10 D:FILESPEC.

SAVE TEST or /LST range filespec. ex.: /LST A1:D10 D:FILESPEC.

FORMAT DISK or /LFDN N=1 or 2, drive 1 or 2. ex.: /LFD2

DELETE FILE /LD filetype filespec. ex.: /LDW D:FILESPEC.ext.

RENAME FILE or /LR filetype OLDFILE NEWFILE. ex.: /LRW D:OLDFILE.ext D:NEWFILE.ext

FORMAT JUSTIFY LEFT or /FL range. ex.: /FL A1:D10
FORMAT JUSTIFY CTR. or /FC range. ex.: /FC A1:D10
FORMAT JUSTIFY RIGHT or /FR range. ex.: /FR A1:D10
FORMAT MARGIN or /FM value range. ex.: /FM2 A1:D10

GLOBAL ERASE or /E#. Erases entire worksheet.

GLOBAL RECALC or /R type. Set type of recalculation as RETURN=normal, F=forced all cells, A=automatic, M=manual, C=column priority and R=row priority. ex.: /RM

GLOBAL TXT MODE or /type. Sets text mode as O=default overflow mode or B=bounded will not overflow. ex.: /B

WIDTH or /FW value range. Sets width of columns to 1 to 36 in range. ex.: /FW12 B:D

UNFORMAT or /FU type range. Unformats cells in range by types selected as $=dollars, <comma, V=value protect, O=Override protect and %=percents. ex.: /FUV A1:D12

FORMAT PROTECT or /F type range. ex.: /FV A1:D10 no recalculation or /FO A1:D10 no new entry in cell(s).
FORMAT DOLLARS or /F$ range. Gives leading $ ex.: /F$ A1:D10
FORMAT COMMAS or /F, range. Puts comma every 3 digits ex.: /F, A1:D10
FORMAT PERCENT or /F% range. Multiplies cell(s) by 100 and trails a % sign. ex.: /F% A1:D10

COPY or /C source destination. Copies formulas in range to destination. ex.: /C A1:A10 B1:D1

MOVE or /M source targetcell. Moves block to block with target as upper-left corner. ex.: /M A1:D10 A25

INSERT or /I type location. Inserts row or column in location as R=row, C=column to locations 1 to 255 for row or A to DX for column. ex.: /IR 20

DELETE or /D type location. Deletes row or column at location as R=row, C=column at location 1 to 255 for row or A to DX for column. ex.: /DR 20

ERASE or /E range. Erases cell(s). ex.: /E A1:D10

GOTO or /G cell. Moves cursor to cell. ex.: /GD10

FORMAT PRECISION or /FP value range. Default is 2 decimal places value can be set. ex.: /FP3 A1:D10

FORMAT NUMBER or /F type range. Sets type of number as .=fixed, F=floating, S=scientific and E=engineering. ex.: /FE A1:D1

FORMAT SIGN or /F type range. Sets type of display for negative number as -=leading minus, (=parentheses and D=DR/CR debit or credit. ex.: /F-A1:D10

GLOBAL FORMAT or /FG type. Formats all cells except those individually done. Use L, C, R, M, V, O, $, ,, %, P, ., F, S, E, -, (, or D. ex.: /FGL

GLOBAL UNFORMAT or /FUG type. Unformats cells of type specified as $=dollars, ,=commas, V=value protection, O=Override protection or %=percents. ex.: /FUGV

GLOBAL WIDTH or /FGW value. Sets all columns except where set individually to 1 to 36. ex.: /FGW12

SYSTEM RESET

OPTION

SELECT

START

PRINT or /P type range. Prints to printer as W=worksheet or C=contents (formulas). ex.: /PW A1:D10

SORT or /S type source sortcolumn targetcell. Sorts rows in range from sort column and writes them in block with upper left as targetcell. Types are A=ascending or D=decending ex.: /SAA1:D10 A A20

WINDOW or /W type synch location. Creates a window at location. Types are RETURN=single window, V=vertical, H=horizontal, S=synched or I=independent. ex.: /WHS

TITLES or /T type location. Fix a column and or row. Types RETURN=cancel titles, V=vertical, H=horizontal or B=both (H&V). ex.: /TB

HEADINGS or /H. Turns the row and column headings on or off. Use this for printing or saving as text file. ex.: /H

USE LBLS or /U cells. Sets intersection cell as origin of labels row and column. ex.: /U B2

SPECIAL CHARACTERS

When used as destination range it refers to entire worksheet. ex.: /PW#
! When used as second address in range it is lower right cell of worksheet. ex.: /G!
; Current cursor location ex.: /E;
START Recalculate worksheet
ESC Exit operation

TEXT ENTRY WINDOW

Enter or edit text. Vert. mark is size current column.

NUMERIC ENTRY WINDOW

Enter or edit any numeric or formula entry.
Green is cell point mode and blue is formula edit mode. **/** or **-** switches mode.
OPTION or **SELECT** shows function reference screens.

ERROR MESSAGES

2 Insufficient Memory
3 Value Error - Calc. with a value out of range. Check data values.
11 Floating Point Overflow/Underflow. Divided by zero or number beyond range limits of program.
100 Not Enough Memory
101 Out of Range. Cell address beyond limits.
102 Illegal Command. Not a command.
105 Cell Protected. You cannot enter data.
106 Program Disk Not Found. To use VC>SC SynCalc disk must be in drive 1.
136 Eod of File. Premature end of data file, could be bad disk or system problem.
138 Device Timeout-Check peripherals.
139 Device Nak. see 138
140 Serial Frame Error. Comm. garbled, check hardware.
141 Cursor Out of Range. see 101
142 Serial Bus Overrun. Check hardware.
143 Checksum Error. Check hardware.
144 Device Done Error. Cannot execute command could be disk write protect., diff. format, bad sector or hardware problem.
162 Disk Full. Use different disk.
164 File Number Mismatch. Disk problem.
165 File Name Error. Use legal charc. in filename.
169 Directory Full. Use different disk.
170 File Not Found. Check dir. or drive number.
173 Bad Sectors at Format Time. Use a different disk.

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AT A GLANCE™
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